

By: I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PATENT
Attorney Docket No.: 021362-000300US
Client Reference No.: LAD-2001-095/S#97,780

On 12 Oct. 2005

TOWNSEND and TOWNSEND and CREW LLP

By: Malinda Adair

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Andrew Bradbury
Geoff Waldo

Application No.: 10/670167

Filed: September 23, 2003

For: USE OF TEMPLATED SELF
ASSEMBLY TO CREATE NOVEL
MULTIFUNCTIONAL SPECIES

Examiner: Michael L. Borin

Art Unit: 1631

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references [in compliance with the requirements of 1287 OG 163] are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

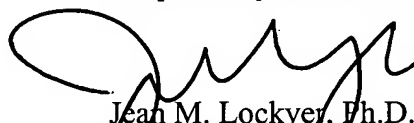
As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement.

However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Jean M. Lockyer, Ph.D.
Reg. No. 44,879

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 415-576-0200
Fax: 415-576-0300
JML:ack
60600935 v1



| | | | | | |
|---|---|----|--------------------------|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | Complete if Known | | |
| | | | Application Number | 10/670167 | |
| | | | Filing Date | September 23, 2003 | |
| | | | First Named Inventor | Bradbury, Andrew | |
| | | | Art Unit | 1631 | |
| | | | Examiner Name | Michael L. Borin | |
| Sheet | 1 | of | 2 | Attorney Docket Number | 021362-000300US |

| U.S. PATENT DOCUMENTS+ | | | | | |
|------------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number Number Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | A1 | US-5,716,805 | 02-10-1998 | Srinivasan, et al. | |
| | A2 | US-5,837,816 | 11-17-1998 | Ciardelli, et al. | |
| | | US- | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|-----------------------|---------------------------|---------------------|-----------------------------------|--------------------------------|--|--|--------------------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
| | | | | | | | | <input type="checkbox"/> |
| | | | | | | | | <input type="checkbox"/> |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | A3 | ADAMIAN, L., et al., "Interhelical Hydrogen Bonds and Spatial Motifs in Membrane Proteins: Polar Clamps and Serine Zippers," <u>Proteins</u> , 2002, Vol. 47, pp. 209-218. | |
| | A4 | ARNDT, K., et al., "A Heterodimeric Coiled-coil Peptide Pair Selected <i>in Vivo</i> from a Designed Library-versus-Library Ensemble," <u>J. Mol. Biol.</u> , 2000, Vol. 295, pp. 627-639. | |
| | A5 | DUCANCEL F., et al., "Recombinant Colorimetric Antibodies: Construction and Characterization of a Bifunctional F(ab) ₂ /Alkaline Phosphatase Conjugate Produced in <i>Escherichia coli</i> ," <u>Biotechnology</u> , 1992, Vol. 11, pp. 601-605. | |
| | A6 | KOHN, W., et al., "De novo design of α -helical coiled coils and bundles: models for the development of protein-design principles," <u>TIBTECH</u> , 1998, Vol. 16, pp. 379-389. | |
| | A7 | LINDNER P., et al., "Specific Detection of His-Tagged Proteins with Recombinant Anti-His Tag scFv-Phosphatase or scFv-Phage Fusions," <u>Biotechniques</u> , 1997, Vol. 22, pp. 140-149. | |
| | A8 | LITOWSKI, J., et al., "Designing Heterodimeric Two-stranded α -Helical Coiled-coils," <u>J. Biol. Chem.</u> , 2002, Vol. 277, pp. 37272-37279. | |
| | A9 | LUPAS, A., "Coiled coils: new structures and new functions," <u>TIBS</u> , 1996, Vol. 21, pp. 375-382. | |
| | A10 | MÜLLER, K., et al., "Protein Fusions to Coiled-Coil Domains," <u>Methods Enzymol.</u> , 2000, Vol. 328, pp. 261-282. | |
| | A11 | PLUCKTHUN, A., et al., "New protein engineering approaches to multivalent and bispecific antibody fragments," <u>Immunotechnology</u> , 1997, Vol. 3, pp. 83-105. | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|---|---|----|---|--------------------------|--------------------|
| Substitute for form 1449A&B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | 10/670167 |
| | | | | Filing Date | September 23, 2003 |
| | | | | First Named Inventor | Bradbury, Andrew |
| | | | | Art Unit | 1631 |
| | | | | Examiner Name | Michael L. Borin |
| Sheet | 2 | of | 2 | Attorney Docket Number | 021362-000300US |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|--------------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | A12 | RHEINNECKER, M., et al., "Multivalent Antibody Fragments with High Functional Affinity for a Tumor-Associated Carbohydrate Antigen," <u>J. Immunol.</u> , 1996, Vol. 157, pp. 2989-2997. | |
| | A13 | WELS, W., et al., "Construction, Bacterial Expression and Characterization of a Bifunctional Single-Chain Antibody-Phosphatase Fusion Protein Targeted to the Human ERBB-2 Receptor," <u>Biotechnology</u> , 1992, Vol. 10, pp. 1128-1132. | |

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.